



SET-150 Specialists Meeting on "Energy Technologies for Portable Power Supplies and Energy Management for Military Applications"

Programme

Monday 04 May 2009

SESSION 0 - Opening Ceremony

Chair - Mr. M. Gietter
Mr. I. Stegel
Dr. S. Karna

- 08:30** Registration
RTA/Host
- 09:00** Welcome and Opening Remarks
I. Stegel, MoD (SVN)
- 09:10** Welcome Address by NATO/RTA
E. Guadalupi, RTA
- 09:30** Welcome Address
Lt. R. Sipec (SVN)

SESSION 1 - Challenges to Providing Power to Manportable Systems

Chair - Mr M. Gietter

- 09:50** **1 KN** State of the Art
Dr Robert Hamlen, (USA)
- 10:30** BREAK
- 11:00** **2** The Implications of Portable Power for Legacy Equipments and Soldier Interoperability
Christopher J. Ford, (GBR)
- 11:30** **3** Power Sources Research for the Canadian Future Combat Soldier
Ian R. Hill and Ed Andrukaitis (CAN)
- 12:00** **4** Long-term Test in Norway of Bren-Tronics Flexible solar Panel Array
Svein Martini, Bjorn Tveit, (NOR)
- 12:30** Lunch
- 14:00** Departure of Bus from Hotel Brdo to Hotel Kranj
- 14:10** Pick up participants from Hotel Kranj
- 15:00** Technical visit to Institute Jozef Stefan
- 17:00** Ljubljana Tour hosted by the Slovenian MoD
- 19:15** Return to Hotel Kranj and Brdo

Tuesday 05 May 2009

SESSION 2 - Novel Power Sources for Sensors

Chair - Dr. S. Karna

- 08:30** **5** Army P&E S&T Strategy and Sensor Power Requirements
E. Shaffer, Lundgren (USA)
- 09:00** **6** Micro Power Requirements & Conversion for Autonomous Systems
Brian Morgan, Sarah Bedair, William Northwang (USA)
- 09:30** **7** Hybrid and Novel Sources for Long Lived Sensors
Dr. Deryn Chu, Dr. Jim Sumner, Dr. Marc Litz (USA)
- 10:00** Break

SESSION 3 - Nanomaterials

Chair - Dr. R. Hamlen

- 10:30** **8** Nanotechnology contribution to power generation, storage and distribution
Shashi Karna (USA)
- 11:00** **9 KN** Flexible and Hybrid Energy Storage Technologies Utilizing Nanomaterials
Professor Pulickel Ajayan (USA)
- 11:40** **10** Photovoltaic Fibers for Smart Textile Applications
Barry De Cristofano (USA)
- 12:10** **11** Microwires for Textile Embedded Sensors
Stephen A. Fossey (USA)
- 12:40** Lunch

SESSION 4 - Fuel Cells

Chair - Dr S. Hocevar

- 14:10** **KN 12** Fuel Cells and Thermoelectric Power Sources for Portable Power Application
Dr. Ramesh Koripella, (USA)
- 14:50** **13** Silicon Methanol Microprocessor for Fuel Cells
Slavko Amon (SVN)
- 15:20** **14** LTCC Ceramics based Microreactor Fuel Processor
Marko Hrovat, (SVN)
- 15:50** Conclusion
- 16:00** Adjourm
- 16:15** Departure of Bus from Congress Centre to Hotel Kranj
- 17:15** Free Time
- 18:45** Bus returns from Hotel Kranj to Hotel Brdo
Host
- 19:00** Host Nation Reception at Grad Brdo
Host
- 21:30** Departure of bus: Hotel Brdo to Hotel Kranj
Host